



Rec'd PCT/PTO 17 JUN 2005

EXPRESS MAIL LABEL #EL 422247885 US

H4

Page 1

SEQUENCE LISTING

<110> BAKER, Matthew
CARR, Francis J.

<120> MODIFIED BRYODIN 1 WITH REDUCED
IMMUNOGENICITY

<130> MER-134

<140> US/10/517,707

<141> 2004-12-10

<150> PCT/EP03/06055

<151> 2003-06-10

<150> EP 02012911.0

<151> 2002-06-11

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<213> Homo sapiens

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			20					25					30		
Asn	Ile	Pro	Leu	Leu	Arg	Ser	Ser	Ile	Ser	Gly	Ser	Gly	Arg	Tyr	Thr
		35					40					45			
Leu	Leu	His	Leu	Thr	Asn	Tyr	Ala	Asp	Glu	Thr	Ile	Ser	Val	Ala	Val
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Asp	Val	Thr	Asn	Val	Tyr	Ile	Met	Gly	Tyr	Leu	Ala	Gly	Asp	Val	Ser
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Tyr	Phe	Phe	Asn	Glu	Ala	Ser	Ala	Thr	Glu	Ala	Ala	Lys	Phe	Val	Phe
			85					90					95		
Lys	Asp	Ala	Lys	Lys	Lys	Val	Thr	Leu	Pro	Tyr	Ser	Gly	Asn	Tyr	Glu
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Arg	Leu	Gln	Thr	Ala	Ala	Gly	Lys	Ile	Arg	Glu	Asn	Ile	Pro	Leu	Gly
	115					120					125				
Leu	Pro	Ala	Leu	Asp	Ser	Ala	Ile	Thr	Thr	Leu	Tyr	Tyr	Tyr	Thr	Ala
	130				135						140				
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			165					170					175		
Lys	Thr	Phe	Leu	Pro	Ser	Leu	Ala	Thr	Ile	Ser	Leu	Glu	Asn	Asn	Trp
		180						185					190		
Ser	Ala	Leu	Ser	Lys	Gln	Ile	Gln	Ile	Ala	Ser	Thr	Asn	Asn	Gly	Gln
	195					200						205			
Phe	Glu	Ser	Pro	Val	Val	Leu	Ile	Asp	Gly	Asn	Asn	Gln	Arg	Val	Ser
	210					215				220					
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Val Ala Val Asp Val
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Xaa=Pro, Tyr

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			20					25					30		
Asn	Ile	Pro	Leu	Leu	Arg	Ser	Ser	Ile	Ser	Gly	Ser	Gly	Arg	Tyr	Xaa
		35					40					45			
Xaa	Leu	Xaa	Leu	Thr	Xaa	Xaa	Ala	Asp	Glu	Thr	Xaa	Ser	Val	Ala	Xaa
	50					55				60					
Asp	Xaa	Thr	Asn	Val	Tyr	Ile	Met	Gly	Tyr	Leu	Ala	Gly	Asp	Val	Ser
65					70					75				80	
Tyr	Phe	Phe	Asn	Glu	Ala	Ser	Ala	Thr	Glu	Ala	Ala	Lys	Xaa	Xaa	Phe
			85						90					95	
Lys	Asp	Ala	Lys	Lys	Lys	Xaa	Thr	Leu	Pro	Tyr	Ser	Gly	Asn	Tyr	Glu
			100					105					110		
Arg	Xaa	Gln	Thr	Xaa	Ala	Xaa	Xaa	Xaa	Xaa	Glu	Asn	Xaa	Pro	Leu	Gly
		115					120					125			
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	130					135					140				
Ser	Ser	Ala	Ala	Ser	Ala	Xaa	Xaa	Xaa	Xaa	Ile	Gln	Ser	Thr	Ala	Glu
145					150					155				160	
Ser	Ala	Arg	Tyr	Lys	Phe	Ile	Glu	Gln	Gln	Ile	Gly	Lys	Arg	Val	Asp
			165					170						175	
Lys	Thr	Phe	Leu	Pro	Ser	Leu	Ala	Thr	Xaa	Ser	Xaa	Glu	Asn	Asn	Trp
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Ser	Ala	Xaa	Ser	Xaa	Gln	Xaa	Gln	Xaa	Ala	Ser	Thr	Asn	Asn	Gly	Gln
		195					200					205			
Phe	Glu	Ser	Pro	Val	Val	Leu	Ile	Asp	Gly	Asn	Asn	Gln	Arg	Val	Ser
	210					215				220					
Ile	Thr	Asn	Ala	Ser	Ala	Arg	Val	Val	Thr	Ser	Asn	Ile	Ala	Leu	Leu
225					230					235				240	
Leu	Asn	Arg	Asn	Asn	Ile	Ala	Ala	Ile	Gly	Glu	Asp	Ile	Ser	Met	Thr
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Lys Val Val Asp Gln Ile Lys Lys Ile Ser Lys Pro Val Gln His
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Val Ser Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr
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 Tyr Gly Val Phe Ile Lys Asn Leu Arg Glu Ala Leu Pro
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1

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5

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1

5

10

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5

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Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu Tyr Tyr Tyr
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Thr Thr Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala Ala Ser
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Ala Leu Leu Val Leu Ile Gln Ser Thr Ala Glu Ser Ala
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<400> 75
 Ala Thr Ile Ser Leu Glu Asn Asn Trp Ser Ala Leu Ser
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<400> 76
 Ile Ser Leu Glu Asn Asn Trp Ser Ala Leu Ser Lys Gln
 1 5 10

<210> 77
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<400> 77

Asn Asn Trp Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala
1 5 10

<210> 78

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<400> 78

Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala Ser Thr Asn
1 5 10

<210> 79

<211> 13

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<223> Fragments of Bryodin 1

<400> 79

Lys Gln Ile Gln Ile Ala Ser Thr Asn Asn Gly Gln Phe
1 5 10

<210> 80

<211> 13

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<400> 80

Ile Gln Ile Ala Ser Thr Asn Asn Gly Gln Phe Glu Ser
1 5 10

<210> 81

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<400> 81

Gly Gln Phe Glu Ser Pro Val Val Leu Ile Asp Gly Asn
1 5 10

<210> 82

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<400> 82
Ser Pro Val Val Leu Ile Asp Gly Asn Asn Gln Arg Val
1 5 10

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<400> 83
Pro Val Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser
1 5 10

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<400> 84
Val Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser Ile
1 5 10

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<400> 85
Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser Ile Thr
1 5 10

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<400> 86

Gln Arg Val Ser Ile Thr Asn Ala Ser Ala Arg Val Val
 1 5 10

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<400> 87
 Val Ser Ile Thr Asn Ala Ser Ala Arg Val Val Thr Ser
 1 5 10

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<400> 88
 Ala Arg Val Val Thr Ser Asn Ile Ala Leu Leu Leu Asn
 1 5 10

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<400> 89
 Arg Val Val Thr Ser Asn Ile Ala Leu Leu Leu Asn Arg
 1 5 10

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<400> 90
 Ser Asn Ile Ala Leu Leu Asn Arg Asn Asn Ile Ala
 1 5 10

<210> 91
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<400> 91

Ile Ala Leu Leu Leu Asn Arg Asn Asn Ile Ala Ala Ile
1 5 10

<210> 92

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<400> 92

Ala Leu Leu Leu Asn Arg Asn Asn Ile Ala Ala Ile Gly
1 5 10

<210> 93

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<400> 93

Leu Leu Leu Asn Arg Asn Asn Ile Ala Ala Ile Gly Glu
1 5 10

<210> 94

<211> 13

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<400> 94

Asn Asn Ile Ala Ala Ile Gly Glu Asp Ile Ser Met Thr
1 5 10

<210> 95

<211> 13

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<400> 95

Ala Ala Ile Gly Glu Asp Ile Ser Met Thr Leu Ile Gly
1 5 10

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<400> 96
 Glu Asp Ile Ser Met Thr Leu Ile Gly Phe Glu His Gly
 1 5 10

<210> 97
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 Ile Ser Met Thr Leu Ile Gly Phe Glu His Gly Leu Tyr
 1 5 10

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<400> 98
 Met Thr Leu Ile Gly Phe Glu His Gly Leu Tyr Gly Ile
 1 5 10

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<400> 99
 Asp Val Ser Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr Gly
 1 5 10 15

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Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr Gly Val Phe Ile
1 5 10 15

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<400> 101
Ser Gly Ala Thr Thr Thr Ser Tyr Gly Val Phe Ile Lys Asn Leu
1 5 10 15

<210> 102
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<400> 102
Thr Thr Thr Ser Tyr Gly Val Phe Ile Lys Asn Leu Arg Glu Ala
1 5 10 15

<210> 103
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<400> 103
Ser Tyr Gly Val Phe Ile Lys Asn Leu Arg Glu Ala Leu Pro Tyr
1 5 10 15

<210> 104
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<400> 104
Val Phe Ile Lys Asn Leu Arg Glu Ala Leu Pro Tyr Glu Arg Lys
1 5 10 15

<210> 105
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<400> 105

Lys Asn Leu Arg Glu Ala Leu Pro Tyr Glu Arg Lys Val Tyr Asn
1 5 10 15

<210> 106

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<400> 106

Arg Glu Ala Leu Pro Tyr Glu Arg Lys Val Tyr Asn Ile Pro Leu
1 5 10 15

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<400> 107

Leu Pro Tyr Glu Arg Lys Val Tyr Asn Ile Pro Leu Leu Arg Ser
1 5 10 15

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<400> 108

Glu Arg Lys Val Tyr Asn Ile Pro Leu Leu Arg Ser Ser Ile Ser
1 5 10 15

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<400> 109

Val Tyr Asn Ile Pro Leu Leu Arg Ser Ser Ile Ser Gly Ser Gly

1 5 10 15

<210> 110
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<220>
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<400> 110
 Ile Pro Leu Leu Arg Ser Ser Ile Ser Gly Ser Gly Arg Tyr Thr
 1 5 10 15

<210> 111
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 <212> PRT
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<400> 111
 Leu Arg Ser Ser Ile Ser Gly Ser Gly Arg Tyr Thr Leu Leu His
 1 5 10 15

<210> 112
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<400> 112
 Ser Ile Ser Gly Ser Gly Arg Tyr Thr Leu Leu His Leu Thr Asn
 1 5 10 15

<210> 113
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<400> 113
 Gly Ser Gly Arg Tyr Thr Leu Leu His Leu Thr Asn Tyr Ala Asp
 1 5 10 15

<210> 114
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<400> 114

Arg	Tyr	Thr	Leu	Leu	His	Leu	Thr	Asn	Tyr	Ala	Asp	Glu	Thr	Ile
1				5				10						15

<210> 115

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<400> 115

Leu	Leu	His	Leu	Thr	Asn	Tyr	Ala	Asp	Glu	Thr	Ile	Ser	Val	Ala
1			5					10						15

<210> 116

<211> 15

<212> PRT

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<400> 116

Leu	Thr	Asn	Tyr	Ala	Asp	Glu	Thr	Ile	Ser	Val	Ala	Val	Asp	Val
1				5				10						15

<210> 117

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<212> PRT

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<220>

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<400> 117

Tyr	Ala	Asp	Glu	Thr	Ile	Ser	Val	Ala	Val	Asp	Val	Thr	Asn	Val
1				5				10						15

<210> 118

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<223> Fragments of Bryodin 1

<400> 118

Glu	Thr	Ile	Ser	Val	Ala	Val	Asp	Val	Thr	Asn	Val	Tyr	Ile	Met
1				5				10						15

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<400> 119

Ser	Val	Ala	Val	Asp	Val	Thr	Asn	Val	Tyr	Ile	Met	Gly	Tyr	Leu
1				5					10					15

<210> 120

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<400> 120

Val	Asp	Val	Thr	Asn	Val	Tyr	Ile	Met	Gly	Tyr	Leu	Ala	Gly	Asp
1				5					10					15

<210> 121

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<400> 121

Thr	Asn	Val	Tyr	Ile	Met	Gly	Tyr	Leu	Ala	Gly	Asp	Val	Ser	Tyr
1				5					10					15

<210> 122

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<400> 122

Tyr	Ile	Met	Gly	Tyr	Leu	Ala	Gly	Asp	Val	Ser	Tyr	Phe	Phe	Asn
1				5					10					15

<210> 123

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<400> 123

Gly	Tyr	Leu	Ala	Gly	Asp	Val	Ser	Tyr	Phe	Phe	Asn	Glu	Ala	Ser
1				5					10					15

<210> 124

<211> 15

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<400> 124

Ala	Gly	Asp	Val	Ser	Tyr	Phe	Phe	Asn	Glu	Ala	Ser	Ala	Thr	Glu
1				5					10					15

<210> 125

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<400> 125

Val	Ser	Tyr	Phe	Phe	Asn	Glu	Ala	Ser	Ala	Thr	Glu	Ala	Ala	Lys
1				5					10					15

<210> 126

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<212> PRT

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<400> 126

Phe	Phe	Asn	Glu	Ala	Ser	Ala	Thr	Glu	Ala	Ala	Lys	Phe	Val	Phe
1				5					10					15

<210> 127

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<400> 127

Glu	Ala	Ser	Ala	Thr	Glu	Ala	Ala	Lys	Phe	Val	Phe	Lys	Asp	Ala
1				5					10					15

<210> 128

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<212> PRT

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<400> 128

Ala	Thr	Glu	Ala	Ala	Lys	Phe	Val	Phe	Lys	Asp	Ala	Lys	Lys	Lys
1				5					10					15

<210> 129

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<400> 129

Ala	Ala	Lys	Phe	Val	Phe	Lys	Asp	Ala	Lys	Lys	Lys	Val	Thr	Leu
1				5					10					15

<210> 130

<211> 15

<212> PRT

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<400> 130

Phe	Val	Phe	Lys	Asp	Ala	Lys	Lys	Lys	Val	Thr	Leu	Pro	Tyr	Ser
1				5					10					15

<210> 131

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<212> PRT

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<400> 131

Lys	Asp	Ala	Lys	Lys	Lys	Val	Thr	Leu	Pro	Tyr	Ser	Gly	Asn	Tyr
1				5					10					15

<210> 132

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<212> PRT

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<400> 132

Lys	Lys	Lys	Val	Thr	Leu	Pro	Tyr	Ser	Gly	Asn	Tyr	Glu	Arg	Leu
1				5					10					15

<210> 133

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<212> PRT

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<223> Fragments of Bryodin 1

<400> 133

Val	Thr	Leu	Pro	Tyr	Ser	Gly	Asn	Tyr	Glu	Arg	Leu	Gln	Thr	Ala
1				5				10					15	

<210> 134

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 134

Pro	Tyr	Ser	Gly	Asn	Tyr	Glu	Arg	Leu	Gln	Thr	Ala	Ala	Gly	Lys
1				5				10					15	

<210> 135

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<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 135

Gly	Asn	Tyr	Glu	Arg	Leu	Gln	Thr	Ala	Ala	Gly	Lys	Ile	Arg	Glu
1				5				10					15	

<210> 136

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<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 136

Glu	Arg	Leu	Gln	Thr	Ala	Ala	Gly	Lys	Ile	Arg	Glu	Asn	Ile	Pro
1				5				10					15	

<210> 137

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 137

Gln Thr Ala Ala Gly Lys Ile Arg Glu Asn Ile Pro Leu Gly Leu
1 5 10 15

<210> 138

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 138

Ala Gly Lys Ile Arg Glu Asn Ile Pro Leu Gly Leu Pro Ala Leu
1 5 10 15

<210> 139

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 139

Ile Arg Glu Asn Ile Pro Leu Gly Leu Pro Ala Leu Asp Ser Ala
1 5 10 15

<210> 140

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 140

Asn Ile Pro Leu Gly Leu Pro Ala Leu Asp Ser Ala Ile Thr Thr
1 5 10 15

<210> 141

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 141

Leu Gly Leu Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu Tyr Tyr
1 5 10 15

<210> 142

<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 142
Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu Tyr Tyr Tyr Thr Ala
1 5 10 15

<210> 143
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<400> 143
Asp Ser Ala Ile Thr Thr Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala
1 5 10 15

<210> 144
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 144
Ile Thr Thr Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala Ala Ser Ala
1 5 10 15

<210> 145
<211> 15
<212> PRT
<213> Artificial Sequence

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<400> 145
Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala Ala Ser Ala Leu Leu Val
1 5 10 15

<210> 146
<211> 15
<212> PRT
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<220>
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<400> 146

Tyr Thr Ala Ser Ser Ala Ala Ser Ala Leu Leu Val Leu Ile Gln
 1 5 10 15

<210> 147

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 147

Ser Ser Ala Ala Ser Ala Leu Leu Val Leu Ile Gln Ser Thr Ala
 1 5 10 15

<210> 148

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 148

Ala Ser Ala Leu Leu Val Leu Ile Gln Ser Thr Ala Glu Ser Ala
 1 5 10 15

<210> 149

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 149

Leu Leu Val Leu Ile Gln Ser Thr Ala Glu Ser Ala Arg Tyr Lys
 1 5 10 15

<210> 150

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 150

Leu Ile Gln Ser Thr Ala Glu Ser Ala Arg Tyr Lys Phe Ile Glu
 1 5 10 15

<210> 151

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 151

Ser	Thr	Ala	Glu	Ser	Ala	Arg	Tyr	Lys	Phe	Ile	Glu	Gln	Gln	Ile
1				5					10					15

<210> 152

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<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 152

Glu	Ser	Ala	Arg	Tyr	Lys	Phe	Ile	Glu	Gln	Gln	Ile	Gly	Lys	Arg
1				5					10					15

<210> 153

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 153

Arg	Tyr	Lys	Phe	Ile	Glu	Gln	Gln	Ile	Gly	Lys	Arg	Val	Asp	Lys
1				5					10					15

<210> 154

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 154

Phe	Ile	Glu	Gln	Gln	Ile	Gly	Lys	Arg	Val	Asp	Lys	Thr	Phe	Leu
1				5					10					15

<210> 155

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 155

Gln	Gln	Ile	Gly	Lys	Arg	Val	Asp	Lys	Thr	Phe	Leu	Pro	Ser	Leu
1				5					10					15

<210> 156

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 156

Gly	Lys	Arg	Val	Asp	Lys	Thr	Phe	Leu	Pro	Ser	Leu	Ala	Thr	Ile
1				5				10						15

<210> 157

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 157

Val	Asp	Lys	Thr	Phe	Leu	Pro	Ser	Leu	Ala	Thr	Ile	Ser	Leu	Glu
1				5				10						15

<210> 158

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 158

Thr	Phe	Leu	Pro	Ser	Leu	Ala	Thr	Ile	Ser	Leu	Glu	Asn	Asn	Trp
1				5				10						15

<210> 159

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 159

Pro	Ser	Leu	Ala	Thr	Ile	Ser	Leu	Glu	Asn	Asn	Trp	Ser	Ala	Leu
1				5				10						15

<210> 160

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 160
 Ala Thr Ile Ser Leu Glu Asn Asn Trp Ser Ala Leu Ser Lys Gln
 1 5 10 15

<210> 161
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Fragments of Bryodin 1

<400> 161
 Ser Leu Glu Asn Asn Trp Ser Ala Leu Ser Lys Gln Ile Gln Ile
 1 5 10 15

<210> 162
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Fragments of Bryodin 1

<400> 162
 Asn Asn Trp Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala Ser Thr
 1 5 10 15

<210> 163
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Fragments of Bryodin 1

<400> 163
 Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala Ser Thr Asn Asn Gly
 1 5 10 15

<210> 164
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 164
 Ser Lys Gln Ile Gln Ile Ala Ser Thr Asn Asn Gly Gln Phe Glu
 1 5 10 15

<210> 165
 <211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 165

Ile	Gln	Ile	Ala	Ser	Thr	Asn	Asn	Gly	Gln	Phe	Glu	Ser	Pro	Val
1				5					10					15

<210> 166

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 166

Ala	Ser	Thr	Asn	Asn	Gly	Gln	Phe	Glu	Ser	Pro	Val	Val	Leu	Ile
1			5						10					15

<210> 167

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 167

Asn	Asn	Gly	Gln	Phe	Glu	Ser	Pro	Val	Val	Leu	Ile	Asp	Gly	Asn
1				5					10					15

<210> 168

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 168

Gln	Phe	Glu	Ser	Pro	Val	Val	Leu	Ile	Asp	Gly	Asn	Asn	Gln	Arg
1				5					10					15

<210> 169

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 169

Ser	Pro	Val	Val	Leu	Ile	Asp	Gly	Asn	Asn	Gln	Arg	Val	Ser	Ile
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1 5 10 15

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 Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser Ile Thr Asn Ala
 1 5 10 15

<210> 171
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<400> 171
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 1 5 10 15

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<400> 172
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 1 5 10 15

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<400> 173
 Val Ser Ile Thr Asn Ala Ser Ala Arg Val Val Thr Ser Asn Ile
 1 5 10 15

<210> 174
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<400> 174

Thr	Asn	Ala	Ser	Ala	Arg	Val	Val	Thr	Ser	Asn	Ile	Ala	Leu	Leu
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<223> Fragments of Bryodin 1

<400> 175

Ser	Ala	Arg	Val	Val	Thr	Ser	Asn	Ile	Ala	Leu	Leu	Leu	Asn	Arg
1				5					10					15

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<223> Fragments of Bryodin 1

<400> 176

Val	Val	Thr	Ser	Asn	Ile	Ala	Leu	Leu	Leu	Asn	Arg	Asn	Asn	Ile
1				5					10					15

<210> 177

<211> 15

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<220>

<223> Fragments of Bryodin 1

<400> 177

Ser	Asn	Ile	Ala	Leu	Leu	Leu	Asn	Arg	Asn	Asn	Ile	Ala	Ala	Ile
1				5					10					15

<210> 178

<211> 15

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<220>

<223> Fragments of Bryodin 1

<400> 178

Ala	Leu	Leu	Leu	Asn	Arg	Asn	Asn	Ile	Ala	Ala	Ile	Gly	Glu	Asp
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<400> 179

Leu	Asn	Arg	Asn	Asn	Ile	Ala	Ala	Ile	Gly	Glu	Asp	Ile	Ser	Met
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<400> 180

Asn	Asn	Ile	Ala	Ala	Ile	Gly	Glu	Asp	Ile	Ser	Met	Thr	Leu	Ile
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<210> 181

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 181

Ala	Ala	Ile	Gly	Glu	Asp	Ile	Ser	Met	Thr	Leu	Ile	Gly	Phe	Glu
1				5					10					15

<210> 182

<211> 15

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<223> Fragments of Bryodin 1

<400> 182

Gly	Glu	Asp	Ile	Ser	Met	Thr	Leu	Ile	Gly	Phe	Glu	His	Gly	Leu
1				5					10					15

<210> 183

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 183

Ile	Ser	Met	Thr	Leu	Ile	Gly	Phe	Glu	His	Gly	Leu	Tyr	Gly	Ile
1				5					10					15